

Good morning, my name is Gary Ryan and I'm the Operational Excellence and Process Safety Manager for Richmond Refinery. Today, I would like to share how we can use our LPS tools to improve process safety at the refinery.

The LPSA helps us assess the hazard, analyze our options and act to eliminate the risk. When applied to personal safety, we are protecting ourselves from cuts, pinch points, slips and falls. When applied to process safety, we may be preventing a fire, explosion or release of toxic materials. These incidents are typically larger and can impact the health and safety of more people.

We can all help to make sure process safety hazards are identified and that the risks associated with them are properly assessed and managed. Two of the things we can do include:

- Think about LPSA when participating in an HSE evaluation or a unit HAZOP. Both of these PSM activities are designed to help us assess, analyze and act based on what can go wrong.
- Do an LPO on key operating tasks. The operating procedure is the standard you can assess against. If you find the procedure is unclear or has an error, we have an opportunity to get it corrected. Procedure LPOs can also be a good refresher to ensure we are following all the steps.

Remember, the purpose of PSM is to help ensure we all get to go home safely each and every day. Use the LPS tools to help promote both personal and process safety! Thanks.